

L Number	Hits	Search Text	DB	Time stamp
13	26	106/38.3,600,635.ccls. and ((lithium adj silicate) or (sodium adj silicate) or (potassium silicate)) same (zinc adj oxide) and (weight or percent or "% or ratio)	USPAT; US-PGPUB	2004/05/19 14:49
14	1	3507676.pn.	USPAT; US-PGPUB	2004/05/19 14:50
-	123	106/635.ccls.	USPAT; US-PGPUB	2004/05/10 08:17
-	17	106/635.ccls. and ((zinc adj oxide) and (potassium adj silicate))	USPAT; US-PGPUB	2004/05/17 09:41
-	1	6700112.pn.	USPAT; US-PGPUB	2004/05/08 15:36
-	1	"6064061".PN.	USPAT	2004/05/17 10:19
-	1	"5967652".PN.	USPAT	2004/05/08 15:38
-	1	"5296285".PN.	USPAT	2004/05/08 15:38
-	1	"4286042".PN.	USPAT	2004/05/08 15:39
-	1	"5885658".PN.	USPAT	2004/05/08 15:39
-	1	"5914487".PN.	USPAT	2004/05/08 15:40
-	1	"5967652".PN.	USPAT	2004/05/08 15:40
-	1	5962143.pn.	USPAT; US-PGPUB	2004/05/10 07:57
-	1	"4272291".PN.	USPAT	2004/05/10 07:58
-	123	106/635.ccls.	USPAT; US-PGPUB	2004/05/10 08:17
-	4	106/635.ccls. and ((zinc adj oxide) and (potassium adj silicate)) and acid	USPAT; US-PGPUB	2004/05/17 10:44
-	4	106/635.ccls. and (reflector same aluminum or (aluminum adj alloy) or al) and ((zinc adj oxide) and (potassium adj silicate)) and acid	USPAT; US-PGPUB	2004/05/17 10:02
-	94	106/\$.ccls. and (reflector same aluminum or (aluminum adj alloy) or al) and ((zinc adj oxide) and (potassium adj silicate)) and acid	USPAT; US-PGPUB	2004/05/17 10:02
-	7	((("5914487") or ("5885658") or ("5296285") or ("4111851") or ("5967652") or ("6064061") or ("4286042"))).PN.	USPAT; US-PGPUB	2004/05/17 10:21
-	3	((("5914487") or ("5885658") or ("5296285") or ("4111851") or ("5967652") or ("6064061") or ("4286042"))).PN.) and ((potassium or K) adj silicate) and (zinc adj oxide)	USPAT; US-PGPUB	2004/05/17 10:29
-	3	((("5914487") or ("5885658") or ("5296285") or ("4111851") or ("5967652") or ("6064061") or ("4286042"))).PN.) and (lithium or Li or sodium or Na or potassium or K or rubinium or Rb or cesium or Cs or francium or Fr) adj silicate and (zinc adj oxide)	USPAT; US-PGPUB	2004/05/17 10:42
-	2534	(lithium or Li or sodium or Na or potassium or K) adj silicate and (zinc adj oxide)	USPAT; US-PGPUB	2004/05/18 13:20
-	859	106/38.3,600,635.ccls.	USPAT; US-PGPUB	2004/05/18 13:24
-	44	106/38.3,600,635.ccls. and ((lithium adj silicate) or (sodium adj silicate) or (potassium silicate)) and (zinc adj oxide)	USPAT; US-PGPUB	2004/05/19 09:49
-	26	106/38.3,600,635.ccls. and ((lithium adj silicate) or (sodium adj silicate) or (potassium silicate)) same (zinc adj oxide)	USPAT; US-PGPUB	2004/05/19 14:02
-	0	106/38.3,600,635.ccls. and ((lithium adj silicate) or (sodium adj silicate) or (potassium silicate)) same (zinc adj oxide) and (propionic adj acid)	USPAT; US-PGPUB	2004/05/18 14:22
-	0	106/38.3,600,635.ccls. and ((potassium silicate) same (zinc adj oxide)) and (propionic adj acid)	USPAT; US-PGPUB	2004/05/18 14:22
-	9	106/38.3,600,635.ccls. and ((lithium adj silicate) or (sodium adj silicate) or (potassium silicate)) same (zinc adj oxide) and acid	USPAT; US-PGPUB	2004/05/18 14:31
-	2314	((lithium adj silicate) or (sodium adj silicate) or (potassium silicate)) same (zinc adj oxide) and coat\$3	USOCR	2004/05/18 14:32
-	1787	((lithium adj silicate) or (sodium adj silicate) or (potassium silicate)) same (zinc adj oxide) and coat\$3 and acid	USOCR	2004/05/18 14:32
-	53	((lithium adj silicate) or (sodium adj silicate) or (potassium silicate)) same (zinc adj oxide) and coat\$3 and acid and (propionic adj acid)	USOCR	2004/05/18 14:33
-	1	5094693.pn.	USPAT; US-PGPUB	2004/05/19 09:56
-	1		USPAT	2004/05/19 09:53
-	1		USPAT	2004/05/19 09:54

-	1		USPAT	2004/05/19 09:54
-	1		USPAT	2004/05/19 09:55
-	13	(thermal adj coat\$3) and (zinc adj oxide)	USPAT; US-PGPUB	2004/05/19 10:06
-	2	((thermal adj coat\$3) and (zinc adj oxide)) and silicate near2 (potassium or sodium or lithium)	USPAT; US-PGPUB	2004/05/19 09:58
-	2966	((thermal or heat or temperature) adj3 coat\$3) and (zinc adj oxide)	USPAT; US-PGPUB	2004/05/19 10:07
-	267	((thermal or heat or temperature) adj3 coat\$3) and (zinc adj oxide)) and (potassium or lithium or sodium) adj silicate	USPAT; US-PGPUB	2004/05/19 10:28
-	32	((thermal or heat or temperature) adj3 coat\$3) and (zinc adj oxide)) and (potassium or lithium or sodium) adj silicate) and (propionic adj acid)	USPAT; US-PGPUB	2004/05/19 10:29
-	2241	coat\$3 with (zinc adj oxide)	EPO; JPO; DERWENT	2004/05/19 10:28
-	0	((coat\$3 with (zinc adj oxide)) and (potassium or lithium or sodium) adj silicate) and (propionic adj acid)	EPO; JPO; DERWENT	2004/05/19 10:29
-	24	(coat\$3 with (zinc adj oxide)) and (potassium or lithium or sodium) adj silicate	EPO; JPO; DERWENT	2004/05/19 10:31
-	5	((coat\$3 with (zinc adj oxide)) and (potassium or lithium or sodium) adj silicate) and (ratio or weight)	EPO; JPO; DERWENT	2004/05/19 10:34
-	468	(zinc adj oxide) same ((potassium or sodium or lithium) adj silicate)	USOCR	2004/05/19 10:37
-	424	((zinc adj oxide) same ((potassium or sodium or lithium) adj silicate)) and (weight or percent or "%" or ratio)	USOCR	2004/05/19 10:38
-	7	((zinc adj oxide) same ((potassium or sodium or lithium) adj silicate)) and (weight or percent or "%" or ratio)) and (propionic adj acid)	USOCR	2004/05/19 10:39

Examiner's
Copy



ZINC CORPORATION OF AMERICA
300 FRANKFORT ROAD MONACA, PA 15061-2295

724-774-1020

**MSDS FOR ZINC OXIDE: KADOX 911C, 911CP, 911CH,
920C, 920CP, 920CH, 930C, 930CH** **ZC-X007**

SECTION I - GENERAL INFORMATION

NAME: ZINC OXIDE

MANUFACTURER:
ZINC CORPORATION OF AMERICA
300 Frankfort Road
Monaca, PA 15061
724-774-1020

TRANSPORTATION EMERGENCY:
CHEMTREC: 800-424-9300

CHEMICAL FAMILY: Nonferrous Metal Oxide

CAS NO.: 1314-13-2

FORMULA: ZnO

DOT HAZARD CLASS: Not listed

UN NO.: NAIF* **NA NO.:** NAIF*

SARA SECTION 313: This product is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR 372. The materials underlined below are present in quantities above the applicable de minimis concentrations and are listed as Toxic Chemicals in 40 CFR 372.65.

ISSUE DATE: 2/12/88

REVISION DATE: 11/15/01

* NAIF - No applicable information found.

SECTION II - INGREDIENTS

<u>MATERIAL</u>	<u>CAS NO.</u>	<u>%</u>
<u>ZINC OXIDE</u>	1314-13-2	99.7
<u>PROPIONIC ACID</u>	79-09-4	0.2
<u>CADMIUM</u>	7440-43-9	0.005
<u>LEAD</u>	7439-92-1	0.001

LEAD AND CADMIUM ARE INHERENT IN THE MANUFACTURE OF ZINC AND ARE NOT PHYSICALLY ADDED IN THE MANUFACTURE OF ZINC OXIDE.

ZC-X007

BOILING POINT (760 MM HG): N/A

MELTING POINT: 3587° F

SPECIFIC GRAVITY: 5.61

EVAPORATION RATE (=1): N/A

VAPOR DENSITY (air = 1): N/A

SOLUBILITY IN WATER: Negligible

PERCENT VOLATILE BY VOLUME (%): N/A

VAPOR PRESSURE AT 20° C: N/A

APPEARANCE AND ODOR: White powder with mild vinegar type odor. (G, P and H suffix denote granular, pellets or hardened pellets respectively - C suffix indicates a coating)

FLASH POINT (METHOD USED): N/A

NFPA FIRE RATING

FLAMMABLE LIMITS: LEL: N/A
UEL: N/A

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

EXTINGUISHING MEDIA: Use water spray, dry chemical, or carbon dioxide extinguisher to the container.

SPECIAL FIRE FIGHTING PROCEDURES: Non-flammable

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

MATERIAL

FORM

OSHA-PEL

ACGIH-TLV

TWA
mg/m³TWA
mg/m³

STEL
mg/m³

ZINC OXIDE

Total Dust
Respirable (Fume)

15
5

10
5

10

ROUTES OF ENTRY

PRIMARY: Inhalation

**MSDS FOR ZINC OXIDE: KADOX 911C, 911CP, 911CH,
920C, 920CP, 920CH, 930C, 930CH ZC-X007**

SECONDARY: Ingestion

EFFECTS OF SHORT TERM OVEREXPOSURE:

ZINC OXIDE: Inhalation of high levels of zinc oxide may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Overexposure may produce symptoms known as metal fume fever or "zinc shakes"; an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting. Like any finely divided particulate matter, zinc oxide may cause mechanical irritation to skin and eyes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Inhalation of dust may be an irritant to pre-existing respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES: Symptoms resulting from inhalation overexposure usually disappear within 24 hours. Symptomatic treatment, such as bed rest and possibly aspirin is recommended to provide relief from fever and chills. Skin contact - flush areas with large amounts of water. Eye contact - flush eyes with copious amounts of water. In all cases, consult physician for medical attention.

EFFECTS OF LONG TERM OVEREXPOSURE:

ZINC OXIDE: Chronic exposure to zinc oxide may cause respiratory tract irritation with nasopharyngitis and laryngitis.

CARCINOGENIC ASSESSMENT:

NTP? No

IARC MONOGRAPH? No

OSHA? No

SECTION VI - REACTIVITY DATA

STABILITY: ☐ Unstable
 ☒ Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIALS TO AVOID): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: ☐ May occur
 ☒ Will not occur

**MSDS FOR ZINC OXIDE: KADOX 911C, 911CP, 911CH,
920C, 920CP, 920CH, 930C, 930CH ZC-X007**

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: As with any nuisance dust, avoid excessive dusting.

WASTE DISPOSAL METHOD: Dispose in a closed container or heavy bag. Material may be recycled or disposed of in accordance with Federal, State and Local Environmental Regulations. This material may be regulated under CERCLA, TSCA, SARA, and/or RCRA Regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Use NIOSH/MSHA approved type respirator for protection for dusting conditions.

VENTILATION: Local exhaust or other ventilation that will reduce dust concentrations to less than permissible exposure limits.

PROTECTIVE GLOVES: Recommended to prevent skin irritation in hypersensitive individuals.

EYE PROTECTION: Use safety eyewear for protection against airborne particulate matter.

OTHER PROTECTIVE EQUIPMENT: Barrier creams may help prevent skin irritation in hypersensitive individuals.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: None.

OTHER PRECAUTIONS: Practice good personal hygiene when working in areas where this material is used. Avoid prolonged contact with skin.

DISCLAIMER: As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of the material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

**MSDS FOR ZINC OXIDE: KADOX 911C, 911CP, 911CH,
920C, 920CP,920CH, 930C, 930CH ZC-X007**

G:/msds/oxide/zcx007

Examined Copy



Search

1-800-44

Regulation Resource Site

[On-Line Catalog](#) | [Site Home](#) | [MSDS](#) | [CFR](#) | [Safety Resources](#) | [S](#)

MSDS Database

Search Resource Site

Most Pop
in Hazard M

- ▶ [Diamond Pane](#)
- ▶ [Do-It-Yourself](#)
- ▶ [Panel Characte](#)
- ▶ [Chemical Haza](#)
- ▶ [Chemical Warn](#)

Material Safety Data Sheet

Name KADOX 930C, ZINC OXIDE, 5559, 5570, 5574
Company ZINC CORP OF AMERICA

MSDS ckgkf
FSC 0000

MSDS Safety Information

MSDS Date: 01/08/1991
MSDS Num: CKGKF
Product ID: KADOX 930C, ZINC OXIDE, 5559, 5570, 5574
MFN: 01
Responsible Party
Cage: 0GMG6
Name: ZINC CORP OF AMERICA
Address: 300 FRANKFORT RD
City: MONACA PA 15061-2295
Info Phone Number: 412-774-1020
Emergency Phone Number: 412-774-1020
Resp. Party Other MSDS No.: ZC-X007
Chemtrec IND/Phone: (800) 424-9300
Review Ind: Y
Published: Y

Fast Fi

- ▶ [Confined Spac](#)
- ▶ [Lockout Check](#)
- ▶ [CFR - 1910 L](#)
[Fire Protection](#)
- ▶ [Asbestos Fact](#)
- ▶ [Traffic Signs](#)
- ▶ [Parking Signs](#)
- ▶ [Industrial Sign](#)
- ▶ [Tags](#)

Contractor Summary

Cage: 045F7
Name: HALL C P CO
Address: 7300 S CENTRAL AVE
City: BEDFORD PARK IL 60499
Phone: 800-762-6198
Cage: ZINCC
Name: ZINC CORP OF AMERICA
Address: FOURTH STREET
City: PALMERTOWN PA 18071
Phone: 215-826-8692
Cage: 0GMG6
Name: ZINC CORPORATION OF AMERICA
Address: 300 FRANKFORT ROAD
City: MONACA PA 15061-2295
Phone: 724-774-1020

Ingredients

Cas: 1314-13-2
RTECS #: ZH4810000
Name: ZINC OXIDE (FORMULA: ZNO)
Percent by Wt: 99.3
OSHA PEL: 15 MG/M3

Cas: 7439-92-1
RTECS #: OF7525000
Name: LEAD
% Wt: 0.0025 %
ACGIH TLV: 0.15 MG/M3
ACGIH STEL: NOT ESTABLISHED
EPA Rpt Qty: 1 LB
DOT Rpt Qty: 1 LB



See page 2

Cas: 7440-43-9
RTECS #: EU9800000
Name: CADMIUM
Percent by Wt: .01
OSHA PEL: SEE 1910.1027
EPA Rpt Qty: 10 LBS
DOT Rpt Qty: 10 LBS

Cas: 79-09-4
RTECS #: UE5950000
Name: PROPIONIC ACID
Percent by Wt: .2
ACGIH TLV: 30 MG/M3;10 PPM
ACGIH STEL: NOT ESTABLISHED
EPA Rpt Qty: 5000 LBS
DOT Rpt Qty: 5000 LBS

Health Hazards Data

Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO

Effects of Exposure: ROUTES OF ENTRY: PRIMARY: INHALATION, SECONDARY:
INGESTION. ZINC OXIDE: INHALATION OF HIGH LEVELS OF ZINC OXIDE MAY RESULT IN
TIGHTNESS OF THE CHEST, METALLIC TASTE, COUGH, DIZZINESS, FEVER, CHILLS,
HEADACHE, NAUSEA, AND DRY THROAT. OVEREXPOSURE MAY PRODUCE SYMPTOMS KNOWN AS
METAL FUME FEVER OR "ZINC SHAKES"; AN ACUTE, SELF-LIMITING CONDITION WITHOUT
RECOGNIZED COMPLICATIONS. SYMPTOMS OF METAL FUME FEVER INCLUDE: CHILLS,
FEVER, MUSCULAR PAIN, NAUSEA AND VOMITING. LIKE ANY FINELY DIVIDED
PARTICULATE MATTER, ZINC OXIDE MAY CAUSE MECHANICAL IRRITATION TO SKIN AND
EYES. CHRONIC EXPOSURE TO ZINC OXIDE (SIGNS/SYMPTOMS OF OVEREXP)
Signs And Symptoms Of Overexposure: HEALTH HAZARDS (CONT): MAY CAUSE
RESPIRATORY TRACT IRRITATION WITH NASOPHARYNGITIS AND LARYNGITIS. LEAD
APPEARS ON THE NAVY LIST OF OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS. SEEK
CONSULTATION FROM APPROPRIATE HEALTH PROFESSIONAL CONCERNING SAFE HANDLING
AND EXPOSURE INFORMATION (FP N).
Medical Cond Aggravated By Exposure: INHALATION OF DUST MAY BE AN IRRITANT TO
PRE-EXISTING RESPIRATORY CONDITIONS.
First Aid: SYMPTOMS RESULTING FROM INHALATION OVEREXPOSURE USUALLY DISAPPEAR
WITHIN 24 HOURS. SYMPTOMATIC TREATMENT, SUCH AS BED REST AND POSSIBLY ASPIRIN
IS RECOMMENDED TO PROVIDE RELIEF FROM FEVER AND CHILLS. SKIN CONTACT - FLUSH
AREAS WITH LARGE AMOUNTS OF WATER. EYE CONTACT - FLUSH EYES WITH COPIOUS
AMOUNTS OF WATER. IN ALL CASES, CONSULT A PHYSICIAN FOR MEDICAL ATTENTION.

Handling and Disposal

Spill Release Procedures: AS WITH ANY NUISANCE DUST, AVOID EXCESSIVE DUSTING.
Waste Disposal Methods: DISPOSE IN A CLOSED CONTAINER OR HEAVY BAG. MATERIAL
MAY BE RECYCLED OR DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
ENVIRONMENTAL REGULATIONS. THIS MATERIAL MAY BE REGULATED UNDER CERCLA,
TSCA, SARA, AND/OR RCRA REGULATIONS.
Handling And Storage Precautions: STORE IN DRY WELL-VENTILATED AREAS AWAY FROM
FIRE AND HEAT.
Other Precautions: PRACTICE GOOD PERSONAL HYGIENE WHEN WORKING IN AREAS WHERE
THIS MATERIAL IS USED. AVOID PROLONGED CONTACT WITH SKIN.

Fire and Explosion Hazard Information

Extinguishing Media: USE WATER SPRAY, DRY CHEMICAL, OR CARBON DIOXIDE
EXTINGUISHER TO THE CONTAINER.
Fire Fighting Procedures: NON-FLAMMABLE
Unusual Fire/Explosion Hazard: NONE

Control Measures

emedco MSDS Library Page 1 of 1

Respiratory Protection: USE NIOSH APPROVED TYPE RESPIRATOR FOR PROTECTION FOR DUSTING CONDITIONS.
Ventilation: LOCAL EXHAUST OR OTHER VENTILATION THAT WILL REDUCE DUST CONCENTRATIONS TO LESS THAN PERMISSIBLE EXPOSURE LIMITS.
Protective Gloves: RECOMMENDED TO PREVENT SKIN IRRITATION IN HYPERSENSITIVE INDIVIDUALS.
Eye Protection: (ANSI APPROVED SAFETY GOGGLES - FP N) FOR PROTECTION AGAINST AIRBORNE PARTICLES
Other Protective Equipment: BARRIER CREAMS MAY HELP PREVENT SKIN IRRITATION IN HYPERSENSITIVE INDIVIDUALS. EYEWASH MEETING ANSI DESIGN CRITERIA (FP N).
Work Hygienic Practices: PRACTICE GOOD PERSONAL HYGIENE WHEN WORKING IN AREAS WHERE THIS MATERIAL IS USED. AVOID PROLONGED CONTACT WITH SKIN.
Supplemental Safety and Health: LEAD AND CADMIUM ARE INHERENT IN THE MANUFACTURE OF ZINC AND ARE NOT PHYSICALLY ADDED IN THE MANUFACTURE OF ZINC OXIDE. CHEMICAL FAMILY: NONFERROUS METAL OXIDE. NFPA FIRE RATING: HEALTH=0, FLAMMABILITY=0, REACTIVITY=0. ZINC OXIDE: TWA: OSHA PEL(TOTAL DUST): 10 MG/M3, (RESP): 5 MG/M3, ACGIH TLV (TOTAL DUST): 10 MG/M3.

Physical/Chemical Properties

Melt/Freeze Pt: =1975.C, #####F
Spec Gravity: 5.61
Solubility in Water: NEGLIGIBLE
Appearance and Odor: WHITE POWDER WITH MILD VINEGAR TYPE ODOR(C AND P SUFFIX MEAN COATED OR PELLETS)

Reactivity Data

Stability Indicator: YES
Stability Condition To Avoid: NONE
Materials To Avoid: NONE KNOWN.
Hazardous Decomposition Products: NONE
Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: WILL NOT OCCUR

Toxicological Information

Ecological Information

MSDS Transport Information

Transport Information: DOT HAZARD CLASS: NOT LISTED. UN NO.: NO APPLICABLE INFORMATION FOUND. NA NO.: NO APPLICABLE INFORMATION FOUND.

Regulatory Information

Sara Title III Information: THIS PRODUCT IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT AND 40 CFR 372. THE FOLLOWING MATERIALS ARE PRESENT IN QUANTITIES ABOVE THE APPLICABLE DEMINIMUS CONCENTRATIONS AND ARE LISTED AS TOXIC CHEMICALS IN 40 CFR 372.65: ZINC OXIDE.
Federal Regulatory Information: THIS MATERIAL MAY BE REGULATED UNDER CERCLA, TSCA, SARA, AND/OR RCRA REGULATIONS.

Other Information

HAZCOM Label

Product ID: KADOX 930C, ZINC OXIDE, 5559, 5570, 5574
Cage: OGMG6
Company Name: ZINC CORPORATION OF AMERICA
Street: 300 FRANKFORT ROAD
City: MONACA PA
Zipcode: 15061-2295
Health Emergency Phone: 412-774-1020

Label Required IND: Y
Date Of Label Review: 04/06/2000
Status Code: A
Origination Code: F
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: WARNING
Respiratory Protection IND: YES
Health Hazard: Moderate
Contact Hazard: Slight
Fire Hazard: None
Reactivity Hazard: None
Hazard And Precautions: ACUTE: INHALATION OF HIGH LEVELS OF ZINC OXIDE MAY RESULT IN TIGHTNESS OF THE CHEST, METALLIC TASTE, COUGH, DIZZINESS, FEVER, CHILLS, HEADACHE, NAUSEA, AND DRY THROAT. OVEREXPOSURE MAY PRODUCE SYMPTOM S KNOWN AS METAL FUME FEVER OR "ZINC SHAKES". SYMPTOMS OF METAL FUME FEVER INCLUDE: CHILLS, FEVER, MUSCULAR PAIN, NAUSEA AND VOMITING. LIKE ANY FINELY DIVIDED PARTICULATE MATTER, ZINC OXIDE MAY CAUSE MECHANICAL IRRITATION TO SKIN AND EYES. CHRONIC EXPOSURE TO ZINC OXIDE MAY CAUSE RESPIRATORY TRACT IRRITATION WITH NASOPHARYNGITIS AND LARYNGITIS. LEAD APPEARS ON THE NAVY OCCUPATIONAL CHEMICAL REPRO DUCTIVE HAZARDS LIST (FP N).

Disclaimer

(provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.

[About](#) | [Contact emedco](#) | [Catalog Request](#)
[Jobs](#) | [Links](#) | [Privacy Statement](#)

©Copyright
800-442-363
FAX 800-344-257
A

US-PAT-NO:

6143479

DOCUMENT-IDENTIFIER:

US 6143479 A

TITLE:

Developing system for
alkaline-developable lithographic
printing plates

----- KWIC -----

Detailed Description Text - DETX (124):

9.8 kg potassium silicate dispersion (Kasil 2130, 30% in
water)

1. 10.2 - 2.8.10⁶
2. 87.1 - 2.1.10⁶

Examiner's Copy

Trade name information

*Trade Name

Kadox 930C***Chemical Composition**

French Process zinc oxide

***Uses**

KADOX-930C is a low surface area, high purity French Process zinc oxide.

KADOX-930C is made from KADOX-930 by surface treatment is propionic acid.

This treatment allows the zinc oxide to be more readily wet by rubber, thus hastening incorporation and aiding dispersion.

RUBBER KADOX-930C is used in white and tinted rubber goods, insulated wire, packings and latex where high brightness and are desired.

PropertiesMean Particle Size, μ : 0.33*Surface Area, m²/g : 3.2

*Specific Gravity: 5.6

*Apparent Density, lb/ft³ : 50

*Through 325 Mesh, % : 99.99

*ZnO, % : 99.7

Manufactured By : * Zinc Corporation of America**Distributors(Agent, Wholesaler)**

Add(register) your company in distributor list - Required company log on

ADD

Agent V

Company Name

Company Type

Nation

No such a company has been registered for this product yet !!

1165 GongHang-Dong, GangSeo-Gu, Seoul, Korea ☎ +82-2-2064-7200 📠 +82-2-2064-7300

© Copyright 2000 - 2004 ☒ infochems Inc. All rights reserved.

Examiner's Cop